

Anionic polymerization of impact-modified polystyrene

Abstract

- 5 Anionic polymerization process for preparing impact-modified polystyrene, by
 - 1) preparing a rubber solution from diene monomers or from diene monomers and styrene monomers by anionic solution polymerization, using an organyllithium compound,
 - 10 2) adding sufficient organylaluminum compound to give an Al/Li molar ratio > 1 (or in the case of dialkylaluminum phenolates > 0.5),
 - 3) adding styrene monomer, and
 - 15 4) adding sufficient organyllithium compound, or organyllithium compound and organylaluminum compound, to make the Al/Li molar ratio < 1 (or in the case of dialkylaluminum phenolates < 0.5) ist, and polymerizing the mixture.